

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) In a computing environment that includes a network connected client and server database with services organized in a taxonomy, a method for the server database to obtain taxonomy web service information for one or more related web services represented at different nodes in a the taxonomy, the method comprising:

receiving a request for taxonomy-related web service information, the request including a first-key-representing user entered identification data and relationship data, the user entered identification data identifying a specified web service represented at a specified node within the taxonomy, the specified web service having been specified by a computer user, and a second-key-representing the user entered relationship data identifying a plurality of at least a first and a second specified hierarchical relationship relationships, wherein the relationship data indicates that any related web service node is to havinge with-either the identified node first or second specified hierarchical relationship with the specified web service is a related web service of interest to the user;

extracting the first-key-representing the identification data and the second-key-representing the relationship data from the request;

querying one or more databases in a plurality of different taxonomies located on one or more different computer systems using the first-key-in-aecordance-with-the identification data and the second-key-in-aecordance-with-the relationship data to obtain taxonomy-related-web service information for any-nodes web services having at least one of-the plurality-of the first and the second specified hierarchical relationships-with the identified-node specified web service, the taxonomy-related web service information being presentable configured for presentation in a hierarchical format, the hierarchy being based on the specified web service's node's hierarchical relationship with other web services nodes in the plurality of different taxonomies taxonomy, the nodes of each database comprising at least one of a plurality of root nodes; and

receiving taxonomy-related web service information having at least one identifier that corresponds to any node related web services having at least one of the first and the

second one of the plurality of specified hierarchical relationships with the identified node specified web service in response to the query, the received web service information including the specified web service and at least one related web service being displayable in a navigable taxonomy; and

returning the received web service information to the client, the received web service information for graphical presentation at the client to show a user relevant portions of any of the plurality of taxonomies that included related web services having at least one of the first and the second specified hierarchical relationships with the specified web service.

2. (Cancelled).

3. (Currently Amended) The method of claim 1 wherein the identification data comprises an identifier of a taxonomy and the relationship data indicates a root node relationship, and wherein returning the ~~taxonomy-related~~ web service information in response to the request comprises returning an identifier of at least one root node within the taxonomy.

4. (Currently Amended) The method of claim 3 wherein returning the ~~taxonomy-related~~ web service information in response to the request comprises identifying the relationship along with each other node identifier that corresponds to the relationship data.

5. (Currently Amended) The method of claim 1 wherein the identification data comprises an identifier of a taxonomy and a node identifier of a node within the taxonomy, and wherein returning the ~~taxonomy-related~~ web service information in response to the request comprises returning at least one other node identifier that corresponds to the relationship data.

6. (Original) The method of claim 5 wherein the relationship data indicates a parent relationship.

7. (Original) The method of claim 5 wherein the relationship data indicates a child relationship.

8. (Currently Amended) The method of claim 5 wherein returning the ~~taxonomy-related~~ web service information in response to the request comprises returning an identifier of another taxonomy.

9. (Currently Amended) The method of claim 8 wherein returning the ~~taxonomy-related~~ web service information in response to the request further comprises returning at least one node identifier corresponding to at least one node in another taxonomy.

10. (Original) The method of claim 8 wherein the relationship data indicates an equivalence relationship.

11. (Currently Amended) The method of claim 1 wherein returning the ~~taxonomy-related~~ web service information in response to the request further comprises returning at least one attribute value that indicates whether a node corresponding to that attribute value comprises a classification node.

12. (Currently Amended) The method of claim 1 wherein returning the ~~taxonomy-related~~ web service information in response to the request further comprises returning at least one text string.

13. (Previously Presented) The method of claim 1 wherein the request includes at least one other set of identification data and relationship data, and wherein the response returns data corresponding to the request in the order in which the identification data and relationship data was received such that the first set of identification data and relationship data corresponds to a first part of the response and the at least one other set of identification data and relationship data corresponds to a second part of the response.

14. (Currently Amended) The method of claim 1 wherein the request comprises an XML message, and wherein returning the ~~taxonomy-related~~ web service information in response

to the request further comprises formatting the response as an XML message.

15. (Currently Amended) The method of claim 1 wherein the taxonomy-related web service information corresponds to a taxonomy maintained at a UDDI server.

16. (Previously Presented) A recordable-type computer-readable storage medium having computer-executable instructions configured to execute the method of claim 1 in a computer system.

17. (Currently Amended) In a computing environment that includes a network connected client and server database with services organized in a taxonomy, a method for the network connected client to obtain taxonomy web service information for one or more related web services represented at different nodes in a taxonomy comprising a hierarchy of nodes where the taxonomy categorizes web services or web service providers, the method comprising:

constructing a request for taxonomy web service data regarding one or more specified-nodes related web services, ~~the specified-nodes comprising at least one of a plurality of root-nodes~~; the request including a first-key-representing user entered identification data from which a specified web service represented at a specified node within the taxonomy is identifiable and a second-key-representing at least one user entered relationship information ~~qualifier that identifies a plurality of at least a first and a second specified hierarchical relationship, wherein the relationship information indicates that any related web service having either desired relationships the node is to have with the first or second specified hierarchical relationship with the specified web service is a related web service of interest to the user nodes~~;

communicating the request to a server;

receiving a response from the server regarding the requested taxonomy web service data including the first-key-representing identification data information regarding the specified web service node corresponding to the identification data and the second key-representing relationship information corresponding to the relationship qualifier; and

presenting graphically displaying web service information that corresponds to any related web services having at least one of the first and second specified hierarchical relationships with the specified web service in a navigable taxonomy configured to show a user relevant portions of any of the plurality of taxonomies that included related web services having at least one of the first and the second specified hierarchical relationships with the specified web service about at least a portion of the taxonomy in hierarchical format, the hierarchy being based on the node's relationship with other nodes in the taxonomy, including the received response to the computer user, the information based on the identification information and based on the relationship information in the response.

18. (Original) The method of claim 17 wherein the identification data comprises a unique identifier and the relationship qualifier indicates a root node relationship with the taxonomy, and wherein the response includes information about at least one root node in the taxonomy.

19. (Previously Presented) The method of claim 17 wherein the identification data further includes node identification data from which a node within the taxonomy is configured to be identified.

20. (Original) The method of claim 19 wherein the relationship qualifier indicates a parent node of a node identified by the node identification data, and wherein the response includes information about the parent node.

21. (Original) The method of claim 19 wherein the relationship qualifier indicates a child node of a node identified by the node identification data, and wherein the response includes information about at least one child node, if any exist.

22. (Original) The method of claim 19 wherein the relationship qualifier indicates an equivalent node of a node identified by the node identification data.

23. (Original) The method of claim 17 wherein receiving the response from the server further includes receiving an attribute value that indicates whether a node in the taxonomy is intended as a classification node.

24. (Original) The method of claim 17 wherein receiving the response from the server further includes receiving at least one text string that corresponds to a node in the taxonomy.

25. (Original) The method of claim 17 wherein constructing a request for taxonomy data comprises constructing an XML message.

26. (Original) The method of claim 25 wherein communicating the request to a server

comprises sending the XML message to a UDDI server.

27. (Previously Presented) A computer-readable storage medium having computer-executable instructions configured to execute the method of claim 17 in a computer system.

28. (Currently Amended) In a computing environment that includes a network connected client and server database with services organized in a taxonomy, a system that obtains taxonomy web service information for one or more nodes in a taxonomy, the system comprising:

a client, the client including an application program that presents taxonomy-related web service data using received taxonomy-web service data regarding one or more specified web services represented at a specified node nodes, the taxonomy-related web service data including information about at least a portion of the web services represented in the taxonomy in a hierarchical format, the hierarchy being based on the node's web service's relationship with other nodes web services in the taxonomy, the specified nodes comprising at least one of a plurality of root nodes, the received taxonomy data including a first key representing user entered identification information regarding a node web service corresponding to the identification data and a second key representing user entered relationship information corresponding to a relationship qualifier identifying at least a first and a second specified hierarchical relationship, wherein the relationship data indicates that any related web service having either the first or second specified hierarchical relationship with the specified web service is a related web service of interest to the user; and

a server that maintains taxonomy web service data, the server configured to receive taxonomy-related web service requests including a first key and a second key user entered identification data and relationship data from the client seeking identification information according to the first key regarding an existing specified web service represented at the node and relationship information according to the second key that indicates any related web services having at least one of the first and the second specified hierarchical relationship with the specified web service a plurality of specified relationships between the identified node and the specified nodes, and in response to each request, to locate the related web services relationship information corresponding to the specified web service nodes in the taxonomy and to return a response to the client, the response including the specified web service and at least one related web service being graphically displayable in a navigable taxonomy configured to show a user relevant portions of any of the plurality of taxonomies that included related web services having at

least one of the first and the second specified hierarchical relationships with the specified web service.

29. (Original) The system of claim 28 wherein the relationship information corresponding to the node in the specified taxonomy comprises a root qualifier.

30. (Original) The system of claim 28 wherein the relationship information corresponding to the node in the specified taxonomy comprises a parent qualifier.

31. (Original) The system of claim 28 wherein the relationship information corresponding to the node in the specified taxonomy comprises a child qualifier.

32. (Currently Amended) The system of claim 28 further comprising a database in which the server maintains the ~~taxonomy~~ web service data.

33. (Currently Amended) The system of claim 28 wherein the ~~taxonomy-related~~ web service requests from the client comprise XML messages.

34. (Original) The system of claim 28 wherein the response to the client comprises an XML message.

35. (Original) The system of claim 28 wherein the server comprises a UDDI server.

36. (Previously Presented) The system of claim 28 wherein the client provides the request to the server by calling an application programming interface, the application programming interface formatting the request as a message to communicate with the server and returning the response to the client in response to the application programming interface call.

37-43. (Canceled).